

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Wing K. Luk, Robert H. Dennard
SERIAL NO.: Unassigned
FILED: Concurrently herewith
FOR: **GATED DIODE MEMORY CELLS**

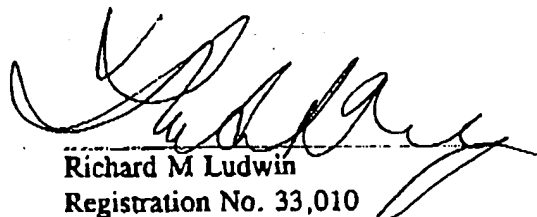
ASSOCIATE POWER OF ATTORNEY

Please recognize **FRANK CHAU**, Reg. No. 34,136; **FRANK V. DeROSA**, Reg. No. 43,584; **NATHANIEL T. WALLACE**, Reg. No. 48,909; **ERIC M. PARHAM**, Reg. No. 45,747; **THOMAS W. McNALLY**, Reg. No. 48,609; **MICHAEL F. MORANO**, Reg. No. 44,952; **KOON H. WANG**, Reg. No. 48,459; **BENJAMIN M. HALPERN**, Reg. No. 46,494 and **RICHARD D. RATCHFORD, JR.**, Reg. No. 53,865; each of them of **F. CHAU & ASSOCIATES, LLP**, 1900 Hempstead Turnpike, Suite 501, East Meadow, New York 11554 as associate attorneys in the above-mentioned application, with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

Telephone calls should be made to Frank Chau by dialing (516) 357-0091.

All written communications are to be sent to Frank Chau, Esq., **F. Chau & Associates, LLP**, 1900 Hempstead Turnpike, Suite 501, East Meadow, New York 11554.

International Business Machines
Corporation
T.J. Watson Research Center
Route 134 and Kitchawan Road
Yorktown Heights, New York 10598


Richard M Ludwin
Registration No. 33,010
Thu Ann Dang
Registration No. 41,544
Attorney for Applicant(s)

DECLARATIONAttorney Docket No. YOR920030136US1 (8728-621)

AS A BELOW NAMED INVENTOR, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe that I am the original, first and sole (*if only one name is listed below*), or an original, first and joint inventor (*if plural names are listed below*), of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE: GATED DIODE MEMORY CELLS

the specification of which either is attached hereto or indicates an attorney docket no. YOR920030136US1 (8728-621), or:

G was filed in the U.S. Patent & Trademark Office on _____ and assigned Serial No. _____

G and (*if applicable*) was amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability and to the examination of this application in accordance with Title 37 of the Code of Federal Regulations ' 1.56. I hereby claim foreign priority benefits under Title 35, U.S. Code ' 119(a)-(d) or ' 365(b) of any foreign application(s) for patent or inventor=s certificate, or ' 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below any foreign applications for patent or inventor=s certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed:

(Application Number)	(Country)	(Day/Month/Year filed)
----------------------	-----------	------------------------

(Application Number)	(Country)	(Day/Month/Year filed)
----------------------	-----------	------------------------

I hereby claim the benefit under Title 35, U.S. Code, ' 120 of any United States application(s), or ' 119(e) of any United States provisional application(s), or ' 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of Title 35, U.S. Code, ' 112, I acknowledge the duty to disclose information material to patentability as defined in Title 37, The Code of Federal Regulations, ' 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

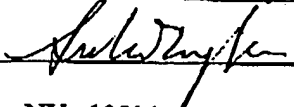
(Application Serial Number)	(Filing Date)	(STATUS: patented, pending, abandoned)
-----------------------------	---------------	--


(Application Serial Number)	(Filing Date)	(STATUS: patented, pending, abandoned)
-----------------------------	---------------	--

I hereby appoint the following attorneys: **RICHARD M. LUDWIN**, (Reg. No. 33,010); **KEVIN M JORDAN**, Reg. No. 40, 277; **CHRISTOPHER A. HUGHES** (Reg. No. 26,914); **JOHN E. HOEL** (Reg. No. 26,279); **JOSEPH C. REDMOND, JR.** (Reg. No. 18,753); **DOUGLAS W. CAMERON**, Reg. No. 31,596; **WAN YEE CHEUNG** (Reg. No. 42,410); **THU ANN DANG** (Reg. No. 41,544); **LOUIS P. HERZBERG**, (Reg. No. 41,500); **DEREK S. JENNINGS**, (Reg. No. 41,473); **STEPHEN C. KAUFMAN**, (Reg. No. 29,551); **DANIEL P. MORRIS**, (Reg. No. 32,053); **ALISON D. MORTINGER** (Reg. No. 39,306); **LOUIS J. PERCELLO**, (Reg. No. 33,206); **ROBERT M. TREPP**, (Reg. No. 25,933); **GAIL H. ZARICK**, (Reg. No. 43,303); and **RAFAEL A. PEREZ-PINEIRO** (Reg. No. 46,041); and each of them of **INTERNATIONAL BUSINESS MACHINES CORPORATION**, Thomas J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598; to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and with full power to substitute an associate attorney or agent, and to receive all patents which may issue thereon, and request that all correspondence be addressed to:

Frank Chau, Esq.
F. CHAU & ASSOCIATES, LLC
1900 Hempstead Turnpike, Suite 501
East Meadow, New York 11554
Tel.: 516-357-0091

I HEREBY DECLARE that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under '1001 of Title 18 U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST OR SOLE INVENTOR: Wing K. Luk Citizenship USA
Inventor=s signature:  Date: 11th Dec, 2003
Residence: Chappaqua, NY 10514
Post Office Address: 29 Random Farms Drive, Chappaqua, NY 10514

FULL NAME OF SECOND JOINT INVENTOR: Robert H. Dennard Citizenship USA
Inventor=s signature:  Date: 11th Dec, 2003
Residence: Croton on Hudson, NY 10520
Post Office Address: 2054 Quaker Ridge Road, Croton on Hudson, NY 10520

FULL NAME OF THIRD JOINT INVENTOR: _____ Citizenship _____
Inventor=s signature: _____ Date: _____
Residence: _____
Post Office Address: _____

FULL NAME OF FOURTH JOINT INVENTOR: _____ Citizenship _____
Inventor=s signature: _____ Date: _____
Residence: _____
Post Office Address: _____

FULL NAME OF FIFTH JOINT INVENTOR: _____ Citizenship _____
Inventor=s signature: _____ Date: _____
Residence: _____
Post Office Address: _____

FULL NAME OF SIXTH JOINT INVENTOR: _____ Citizenship _____
Inventor=s signature: _____ Date: _____
Residence: _____
Post Office Address: _____